



**FACILITY PERMIT TO OPERATE**  
**BP WEST COAT PROD. LLC BP CARSON REFINERY**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**  
The operator shall comply with the terms and conditions set forth below:

<b>Process 4: FRACTIONATION</b>			
<b>SYSTEM 1: SUPERFRACTIONATION UNIT</b>			S4.3, S4.4, S13.2, S56.1
<b>Equipment</b>	<b>ID No.</b>	<b>Emissions and Requirements</b>	<b>Conditions</b>
COLUMN, STABILIZER, NO. 1, DEBUTANIZER, RPV-1035, HEIGHT: 77 FT; DIAMETER: 6 FT 6 IN A/N -499006 512089	D253		
COLUMN, STABILIZER, NO. 2, DEBUTANIZER, RPV-1040, HEIGHT: 117 FT 9 IN; DIAMETER: 6 FT 6 IN A/N -499006 512089	D254		
COLUMN, SOUTH AREA DISOBUTANIZER, RPV-1101, HEIGHT: 127 FT; DIAMETER: 8 FT 6 IN A/N -499006 512089	D255		
COLUMN, STABILIZER, NO. 4, RPV-1117, WITH 40 TRAYS, HEIGHT: 84 FT; DIAMETER: 8 FT A/N -499006 512089	D256		
COLUMN, STABILIZER, NO. 7, RPV-1118, HEIGHT: 62 FT; DIAMETER: 3 FT 6 IN A/N -499006 512089	D257		
COLUMN, NO. 1 NAPHTHA SPLITTLER, RPV-1133, WITH 58 TRAYS, HEIGHT: 112 FT; DIAMETER: 11 FT A/N -499006 512089	D258		
COLUMN, STABILIZER, NO. 9, RPV-1183, HEIGHT: 136 FT; DIAMETER: 12 FT 6 IN A/N -499006 512089	D259		
COLUMN, STABILIZER, NO. 10, RPV-1190, HEIGHT: 110 FT; DIAMETER: 7 FT A/N -499006 512089	D260		
COLUMN, STABILIZER, NO. 11, RPV-1199, HEIGHT: 134 FT; DIAMETER: 8 FT A/N -499006 512089	D261		
COLUMN, NO. 3 DEBUTANIZER, RPV-1208, HEIGHT: 110 FT; DIAMETER: 6 FT A/N -499006 512089	D262		
ACCUMULATOR, NO.1 DEBUTANIZER, RPV-5574, STABILIZER OVERHEAD; LENGTH: 20 FT; DIAMETER: 5 FT A/N -499006 512089	D263		
TANK, SURGE, NO. 1, DEBUTANIZER FEED, RPV 5573, LENGTH: 40 FT; DIAMETER: 8 FT A/N -499006 512089	D264		
ACCUMULATOR, NO.2 DEBUTANIZER OVERHEAD, RPV-1041, HEIGHT: 18 FT 9.5 IN; DIAMETER: 6 FT A/N -499006 512089	D265	BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003];	H23.12
ACCUMULATOR, RPV-5474, SOUTH AREA DIB OVERHEAD, HEIGHT: 18 FT; DIAMETER: 6 FT A/N -499006 512089	D267		
TANK, SURGE, SOUTH AREA DIB FEED, #5 STABILIZER, RPV-1226, HEIGHT: 30 FT 8 IN; DIAMETER: 10 FT A/N -499006 512089	D268		
ACCUMULATOR, NO. 4 DEBUTANIZER OVERHEAD, RPV-5575, VENTED TO VAPOR RECOVERY SYSTEM, HEIGHT: 20 FT; DIAMETER: 5 FT A/N -499006 512089	D269		



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TANK, FEED SURGE, NO. 258, RPV-1073, NO. 4 DEBUTANIZER FEED, HEIGHT: 32 FT 6 IN; DIAMETER: 10 FT A/N -499006 512089	D270		
TANK, SURGE, RPV 1181, NO. 3 DEBUTANIZER FEED, HEIGHT: 32 FT; DIAMETER: 9 FT A/N -499006 512089	D272		
DRUM, KNOCK OUT, WEST, RPV 1185, SOUTH AREA FLARE, LENGTH: 15 FT 8 IN; DIAMETER: 6 FT A/N -499006 512089	D274		
DRUM, KNOCK OUT, EAST, RPV 1189, SOUTH AREA FLARE, LENGTH: 15 FT 8 IN; DIAMETER: 6 FT A/N -499006 512089	D275		
ACCUMULATOR, RPV-1639, DEBUTANIZER OVERHEAD; LENGTH: 12 FT; DIAMETER: 6 FT A/N -499006 512089	D277	BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003]; VOC:500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.12
TANK, SURGE, RPV 1182, #10 STABILIZER FEED, LENGTH: 32 FT; DIAMETER: 9 FT A/N -499006 512089	D278		
TANK, SURGE, RPV 1180, #11 STABILIZER FEED, LENGTH: 32 FT; DIAMETER: 9 FT A/N -499006 512089	D280		
ACCUMULATOR, RPV-1205, NO. 11 STABILIZER OVERHEAD; LENGTH: 16 FT; DIAMETER: 6 FT A/N -499006 512089	D281		
ACCUMULATOR, RPV-1213, NO.3 DEBUTANIZER OVERHEAD; LENGTH: 16 FT; DIAMETER: 6 FT A/N -499006 512089	D282		
POT, RPV 2092, LPG VAPORIZER CONDENSATE, HEIGHT: 4 FT; DIAMETER: 2 FT A/N -499006 512089	D283		
TOWER, DEBUTANIZER, (RPV-1638), HEIGHT: 76 FT 8 IN; DIAMETER: 7 FT A/N -499006 512089	D284		
KNOCK OUT POT, RW 5511, NO. 3 DEBUTANIZER OVERHEAD ACCUMULATOR, HEIGHT: 3 FT; DIAMETER: 1 FT 11 IN A/N -499006 512089	D2894	BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003]; VOC:500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.12
KNOCK OUT POT, RW 5512, NO. 3 DEBUTANIZER FEED SURGE DRUM, HEIGHT: 3 FT; DIAMETER: 1 FT 11 IN A/N -499006 512089	D2895	BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003]; VOC:500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.12
KNOCK OUT POT, RW 5513, NO. 1 DEBUTANIZER ACCUMULATOR, HEIGHT: 3 FT; DIAMETER: 1 FT 11 IN A/N -499006 512089	D2896	BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003]; VOC:500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.12
KNOCK OUT POT, RW 5514, NO. 2 DEBUTANIZER ACCUMULATOR, HEIGHT: 3 FT; DIAMETER: 1 FT 11 IN A/N -499006 512089	D2897	BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003]; VOC:500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.12
KNOCK OUT POT, RW 6336, DIB FEED SURGE DRUM, HEIGHT: 2 FT; DIAMETER: 1 FT A/N -499006 512089	D2898		
KNOCK OUT POT, RPV 4342, HEIGHT: 3 FT 6 IN; DIAMETER: 1 FT A/N -499006 512089	D2628	BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003]; VOC:500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.12



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TOWER, DEHEXANIZER NO.1, RPV-5665, STRAIGHT RUN NAPHTHA, HEIGHT: 144 FT 11 IN; DIAMETER: 13 FT 3 IN A/N -499006 512089	D1364		
ACCUMULATOR, RPV-5666, NO.1 DEHEXANIZER OVERHEAD; LENGTH: 30 FT; DIAMETER: 9 FT A/N -499006 512089	D1365		
KNOCK OUT POT, RPV 5667, NO. 1 DEHEXANIZER REBOILER CONDENSATE, LENGTH: 3 FT; DIAMETER: 2 FT 6 IN A/N -499006 512089	D1366		
TOWER, DEHEXANIZER NO.2, RPV-5678, STRAIGHT RUN NAPHTHA, HEIGHT: 144 FT 11 IN; DIAMETER: 13 FT 3 IN A/N -499006 512089	D1367		
ACCUMULATOR, RPV-5679, NO.2 DEHEXANIZER OVERHEAD; LENGTH: 30 FT; DIAMETER: 9 FT A/N -499006 512089	D1368		
KNOCK OUT POT, RPV 5680, NO. 2 DEHEXANIZER REBOILER CONDENSATE, LENGTH: 3 FT; DIAMETER: 2 FT 6 IN A/N -499006 512089	D1369		
KNOCK OUT POT, RPV 5708, NO. 1 NAPHTHA SPLITTER REBOILER CONDENSATE, LENGTH: 3 FT; DIAMETER: 2 FT 5 IN A/N -499006 512089	D1372		
KNOCK OUT POT, RPV 5712, NO. 2 DEBUTANIZER REBOILER CONDENSATE, LENGTH: 1 FT 9 IN; DIAMETER: 1 FT 6 IN A/N -499006 512089	D1373		
TANK, FLASH, RPV 5713, NO. 1 DEHEXANIZER REBOILER, LENGTH: 16 FT 6 IN; DIAMETER: 6 FT A/N -499006 512089	D1374		
TANK, FLASH, RPV 5714, NO. 2 DEHEXANIZER REBOILER, LENGTH: 16 FT 6 IN; DIAMETER: 6 FT A/N -499006 512089	D1375		
TANK, FLASH, RPV 5715, DEHEXANIZER, LENGTH: 21 FT; DIAMETER: 6 FT A/N -499006 512089	D1376		
KNOCK OUT POT, RPV 5716, NO. 2 DEHEXANIZER REBOILER CONDENSATE, LENGTH: 3 FT; DIAMETER: 2 FT 6 IN A/N -499006 512089	D1377		
KNOCK OUT POT, RPV 5717, NO. 1 DEHEXANIZER REBOILER CONDENSATE, LENGTH: 3 FT; DIAMETER: 2 FT 6 IN A/N -499006 512089	D1378		
TANK, FLASH, RPV 5718, 150 LB STEAM, LENGTH: 13; DIAMETER: 5 FT A/N -499006 512089	D1379		
TANK, FLASH, RPV 5719, NAPHTHA SPLITTER REBOILER CONDENSATE, LENGTH: 3 FT; DIAMETER: 2 FT 6 IN A/N -499006 512089	D1380		
TANK, FLASH, RPV 5733, 25 LB STEAM, LENGTH: 19 FT 6 IN; DIAMETER: 6 FT A/N -499006 512089	D1381		
VESSEL, SEPARATOR, RPV 5734, HC CONDENSATE, LENGTH: 6 FT; DIAMETER: 6 FT A/N -499006 512089	D1382		



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VESSEL, SEPARATOR, RW-6191, COALESCING OIL, HEIGHT: 5 FT; DIAMETER: 5 FT 3 IN A/N -499006 512089	D2899		
VESSEL, SEPARATOR, RW-6192, BULK OIL, HEIGHT: 10 FT; DIAMETER: 6 FT A/N -499006 512089	D2900		
KNOCK OUT POT, RPV 5735, COKER GAS FRACTIONATION DEHEXANIZER REBOILER CONDENSATE, LENGTH: 2 FT; DIAMETER: 1 FT 6 IN A/N -499006 512089	D1383		
KNOCK OUT POT, RPV 5736, COKER GAS FRACTIONATION SWING REBOILER CONDENSATE, LENGTH: 2 FT; DIAMETER: 1 FT 6 IN A/N -499006 512089	D1384		
KNOCK OUT POT, RPV 5780, DEHEXANIZER FLARE, LENGTH: 10 FT; DIAMETER: 5 FT A/N -499006 512089	D1385	BENZENE: (10) [40CFR 61 Subpart FF_02, 12-4-2003]; VOC:500 PPMV (8) [40CFR 61 Subpart FF, 12-4-2003]	H23.12
SCRUBBER, RPV 1293, SFIA FUEL GAS, HEIGHT: 30 FT; DIAMETER: 3 FT 4 A/N -499006 512089	D287		
VESSEL, EAST VAPOR RECOVERY BLOWCASE, RW-713, HEIGHT: 4 FT 4 IN; DIAMETER: 2 FT A/N -499006 512089	D2901		
FUGITIVE EMISSIONS, MISCELLANEOUS A/N -499006 512089	D2476	HAP: (10) [40CFR 63 Subpart CC, #5A, 6-23-2003]	H23.3

**Process 21: AIR POLLUTION CONTROL SYTEM**

**SYSTEM : SOUTH AREA FLARE SYSTEM**

S56.1,  
S58.2,  
S31.10

Equipment	ID No.	Connected to	Emissions and Requirements	Conditions
FLARE, ELEVATED WITH STEAM INJECTION, NATURAL GAS, WITH 3 PILOT ASSEMBLIES, TIE-IN LINE TO FCCU FLARE FROM THE SOUTH UNITS, DIA: 3 FT, HEIGHT: 203 FT 6 IN A/N:-499007 512088 BURNER, JOHN ZINK, MODEL STF-S-24	C1302	809 815	CO: 2000 PPMV (5) [RULE 407, 04/02/82]; PM: 0.10 GRAINS/SCF (5) [RULE 409, 08/07/81]	D12.15, D323.1, E193.3, H23.12, H23.29, II.1
KNOCK OUT POT, RPV-0417, DIA: 5 FT, HEIGHT: 7 FT A/N:-499007 512088	D2795			
KNOCK OUT POT, FLARE STACK, DIA: 108 IN, HEIGHT: 258 IN A/N:-499007 512088	D1303			
KNOCK OUT POT, RPV-303, SOUTH AREA FLARE PRIMARY, DIA: 10 FT, LENGTH: 40 FT A/N:-499007 512088	D1304			
DRUM, WATER SEAL, RW 6989, LENGTH: 25 FT, DIAMETER: 13 FT A/N:-499007 512088	D2796			
KNOCK OUT POT, SOUTH FLARE LINE, RPV-	D2809			



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1994, DIA: 1 FT 4 IN, HEIGHT: 5 FT 9 IN A/N: 499007 512088				
KNOCK OUT POT, NORTH FLARE LINE, RPV- 1993, DIA: 1 FT 4 IN, HEIGHT: 5 FT 9 IN A/N: 499007 512088	D2810			
AUTOPUMP, SOUTH AREA FLARE, RW 6876- 289.09, DIA: 1 FT, HEIGHT: 3 FT 11 IN A/N: 499007 512088	D2863			
AUTOPUMP, SOUTH AREA FLARE, RW 6877- 289.09, DIA: 1 FT, HEIGHT: 3 FT 11 IN A/N: 499007 512088	D2864			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 499007 512088	D2542		<b>HAP:</b> (10) [RULE 63SUBPART CC; #5A, 6-23- 2003]	H23.3

**Conditions:**

Superfractionation Unit: S4.3, S4.4, S13.2, **S56.1**, H23.3, H23.12.

South Area Flare: S31.10, S56.1, S58.2, D12.15, D323.1, E193.3, H23.3, H23.12, H23.29, I1.1

**S4.3 THE FOLLOWING CONDITION(S) SHALL APPLY TO ALL AFFECTED DEVICES LISTED UNDER SECTION H OF THIS SYSTEM FOR FUGITIVE EMISSIONS OF VOLATILE ORGANIC COMPOUNDS (VOC):**

All open-ended valves shall be equipped with cap, blind flange, plug, or a second valve.

All pressure relief valves shall be connected to closed vent system or equipped with rupture disc.

All sampling connections shall be closed-purge, closed-loop, or closed-vent system.

All process drains shall be equipped with water seal, or a closed vent system and control device complying with the requirements of 40CFR60 Subpart QQQ section 60.692-5.

[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; 40CFR 60 Subpart QQQ, 10-17-2000]

**S4.4 THE FOLLOWING CONDITION(S) SHALL APPLY TO ALL AFFECTED DEVICES LISTED UNDER SECTION H OF THIS SYSTEM FOR FUGITIVE EMISSIONS OF VOLATILE ORGANIC COMPOUNDS (VOC):**

All components are subject to District Rule 1173 and 40CFR60, Subpart GGG.

All new components in VOC service as defined in Rule 1173, except valves and flanges shall be inspected quarterly using EPA reference method 21. All new valves and flanges in VOC service except those specifically exempted by Rule 1173 shall be inspected monthly using EPA Method 21.

All new valves in VOC service shall be of leakless type, except those specifically exempted by Rule 1173 or approved by the District in writing in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available.

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation.

If 98.0 percent or greater of the new valve and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppm for two consecutive months, then the operator may revert to



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The operator shall comply with the terms and conditions set forth below:

a quarterly inspection program with the approval of the executive officer. This condition shall not apply to leakless valves.

All new components in VOC service, a leak greater than 500 ppm but less than 1,000 ppm measured as methane above background as measured using EPA Method 21, shall be repaired within 14 days of detection. Components shall be defined as any valve, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

The operator shall keep records of the monthly inspection (and quarterly where applicable), subsequent repair, and reinspection, in a manner approved by the District.

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service. The operator shall also submit a complete, as built, piping and instrumentation diagram(s) and copies of requisition data sheet for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used.

[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; RULE 1303(A)(1)-BACT, 5-10-1996; 40CFR 60 Subpart GGG, 6-2-2008]

S13.2 All devices under this system are subject to the applicable requirements of the following rules and regulations:

CONTAMINANT	RULE	RULE/SUBPART
VOC	DISTRICT RULE	1123
[RULE 1123, 12-7-1990]		

S31.10 THE FOLLOWING BACT REQUIREMENTS SHALL APPLY TO VOC SERVICE FUGITIVE COMPONENTS ASSOCIATED WITH THE DEVICES THAT ARE COVERED BY APPLICATION NUMBER(S) 454566, 454567, 454568, 458598, 458600, 458610, 459257, 459284, 459286:

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service. The valves and flanges shall be categorized by size and service. The operator shall submit a listing of all new non-bellows seal valves which shall be categorized by tag no., size, type, operating temperature, operating pressure, body material, application, and reasons why bellows seal valves were not used

All new valves in VOC service, except those specifically exempted by Rule 1173 and those in heavy liquid service as defined in Rule 1173, shall be bellows seal valves, except as approved by the District, in the following applications: heavy liquid service, control valve, instrument piping/tubing, applications requiring torsional valve stem motion, applications where valve failure could pose safety hazard (e.g., drain valves with valve stems in horizontal position), retrofits/special applications with space limitations, and valves not commercially available

All new valves and major components in VOC service as defined by Rule 1173, except those specifically exempted by Rule 1173 and those in heavy liquid service as defined in Rule 1173, shall be distinctly identified from other components through their tag numbers (e.g., numbers ending in the letter "N"), and shall be noted in the records

All new components in VOC service as defined in Rule 1173, except valves and flanges, shall be inspected quarterly using EPA reference Method 21. All new valves and flanges in VOC service, except those specifically exempted by Rule 1173, shall be inspected monthly using EPA Method 21





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The operator shall comply with the terms and conditions set forth below:

If 98.0 percent or greater of the new (non-bellows seal) valves and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv for two consecutive months, then the operator may change to a quarterly inspection program with the approval of the District

The operator shall revert from quarterly to monthly inspection program if less than 98.0 percent of the new (non-bellows seal) valves and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv

All new components in VOC service with a leak greater than 500 ppmv but less than 1,000 ppmv, as methane, measured above background using EPA Method 21 shall be repaired within 14 days of detection. Components shall be defined as any valve, fitting, pump, compressor, pressure relief valve, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173

The operator shall keep records of the monthly inspection (quarterly where applicable), subsequent repair, and re-inspection, in a manner approved by the District. Records shall be kept and maintained for at least five years, and shall be made available to the Executive Officer or his authorized representative upon request

All open-ended valves shall be equipped with cap, blind flange, plug, or a second valve

All pressure relief valves shall be connected to a closed vent system or equipped with a rupture disc and telltale indicator

All pumps shall utilize double seals and be connected to a closed vent system

All compressors to have a seal system with a higher pressure barrier fluid.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-OFFSET, 5-10-1996]

S56.1 VENT GASES FROM ALL AFFECTED DEVICES OF THIS PROCESS/SYSTEM SHALL BE DIRECTED TO A GAS RECOVERY SYSTEM, EXCEPT FOR VENTING FROM THOSE EQUIPMENT SPECIFICALLY INDICATED IN A PERMIT CONDITION, AND FOR THE FOLLOWING VENT GASES WHICH MAY BE DIRECTED TO A FLARE:

- 1) VENT GASES DURING AN EMERGENCY AS DEFINED IN RULE 1118(B)(2) ;
- 2) VENT GASES DURING STARTUPS OR SHUTDOWNS AS DEFINED IN RULE 1118(B)(21) AND (B)(19), RESPECTIVELY, PROVIDED THAT ALL FLARES HAVE BEEN OPERATED IN ACCORDANCE WITH FLARING MINIMIZATION PROCEDURES AS DESCRIBED IN RULE 1118(C)(4); AND
- 3) VENT GAS DUE TO ESSENTIAL OPERATING NEED, AS DEFINED IN RULE 1118(B)(4)(A) THAT WOULD RESULT IN A TEMPORARY FUEL GAS SYSTEM IMBALANCE, OR AS DEFINED IN RULE 1118(B)(4)(C) THAT WOULD RESULT IN STREAMS THAT CANNOT BE RECOVERED DUE TO INCOMPATIBILITY WITH RECOVERY SYSTEM EQUIPMENT OR WITH REFINERY FUEL GAS SYSTEMS, PROVIDED THAT ALL FLARES HAVE BEEN OPERATED IN ACCORDANCE WITH FLARING MINIMIZATION PROCEDURES AS DESCRIBED IN RULE 1118(C)(4).

THE FLARING MINIMIZATION PROCEDURES AND ANY SUBSEQUENT CHANGES SHALL BE SUBMITTED TO THE DISTRICT AS DESCRIBED IN RULE 1118(C)(3).



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THIS PROCESS/SYSTEM SHALL NOT BE OPERATED UNLESS ITS DESIGNATED FLARE(S) AND THE GAS RECOVERY SYSTEM ARE BOTH IN FULL USE AND HAVE VALID PERMITS TO RECEIVE VENT GASES FROM THIS SYSTEM.

Vent gases shall not be released to the atmosphere except from the existing safety devices or relief valves on the following equipment:

Process 1, System 2: 10, 12, 14  
Process 1, System 3: 19, 20, 24 to 26  
Process 1, System 5: 35, 39, 41, 42, 2726  
Process 1, System 6: 43, 49, 57, 58  
Process 1, System 7: 59, 60, 61, 62  
Process 2, System 1: 74, 77, 2388  
Process 2, System 2: 82, 89, 90, 92, 2389  
Process 2, System 3: 94, 95  
Process 2, System 5: 98, 101, 102  
Process 2, System 6: 111, 112, 113  
Process 2, System 11: 159, 160  
Process 3, System 1: 164 to 167, 170, 172 to 181, 184, 1336 to 1349, 2382, 2387  
Process 3, System 2: 186, 188, 189, 191, 196, 199, 201, 204, 1352 to 1355  
Process 3, System 4: 241  
Process 3, System 6: 242, 245 to 247, 249  
Process 3, System 7: 1363  
Process 4, System 1: 253 to 256, 262, 265, 268, ~~270, 272~~, 277, 278, ~~282~~, 283, 287, 1364, 1366, 1367, 1372, 1374 to 1376, 1378 to 1381  
Process 4, System 2: 291, 1400 to 1403  
Process 4, System 3: 292, 293, 297, 299  
Process 4, System 4: 302, 304  
Process 4, System 5: 308, 310, 311  
Process 4, System 7: 1975 to 1977, 1980, 1981, 1986  
Process 5, System 1: 314 to 317, 319, 320, 323 to 332  
Process 5, System 2: 335 to 338, 340, 343, 348 to 353  
Process 5, System 3: 356, 360, 1413  
Process 5, System 4: 401, 406, 407, 412, 414  
Process 6, System 1: 426, 427, 429, 431, 434 to 437, 440, 444, 445, 451, 454 to 456, 458, 460  
Process 6, System 2: 462, 469, 474 to 481, 483, 486  
Process 6, System 3: 490, 494, 495, 498, 501, 503, 506, 507, 509, 510, 512, 513, 518, 520, 521, 525 to 528  
Process 7, System 1: 542 to 548, 550, 552 to 558, 560, 562 to 569  
Process 7, System 2: 2892, 2893  
Process 8, System 1: 583, 584, 593 to 597  
Process 8, System 2: 608, 610, 612 to 614, 622, 624  
Process 9, System 1: 631, 632, 638 to 652, 659 to 663, 666 to 668, 1482, 1483, 1486 to 1488, 1491, 1493 to 1495, 1497 to 1502, 1528, 1533 to 1536, 2019  
Process 9, System 2: 672 to 681, 685  
Process 9, System 9: 637, 653, 656, 658, 664  
Process 10, System 1: 706  
Process 10, System 2: 709, 711 to 715, 720, 721  
Process 10, System 3: 725  
Process 11, System 1: 730





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Process 12, System 1: 756, 759  
Process 12, System 2: 760 to 762, 764  
Process 12, System 3: 765 to 770  
Process 12, System 4: 771, 772, 774  
Process 12, System 8: 785, 790, 2365, 2366  
Process 12, System 9: 794, 797 to 799  
Process 12, System 10: 806  
Process 12, System 12: 815, 818  
Process 12, System 13: 823, 826, 828  
Process 12, System 22: 853, 854  
Process 12, System 24: 860, 861, 863, 864, 865  
Process 12, System 25: 866, 867, 869, 870, 871, 2003  
Process 12, System 27: 873 to 875  
Process 15, System 7: 1644 to 1646, 1648, 1649  
Process 16, System 3: 2115 to 2120, 2353, 2394  
Process 24, System 1: 1304  
Process 24, System 2: 1307  
Process 24, System 4: 1315, 1316, 1319, 1323 to 1325, 1659

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2) – Offset, 5-10-1996]

S58.2 SOUTH AREA FLARE SYSTEM SHALL ONLY BE USED TO RECEIVE AND HANDLE VENT GASES FROM THE FOLLOWING PROCESS(ES) AND SYSTEM(S):

- 1) COKING UNITS (PROCESS: 2, SYSTEM: 1 & 2)
- 2) COKER BLOWDOWN FACILITY (PROCESS: 2, SYSTEM: 3)
- 3) COKER GAS COMPRESSION & ABSORPTION UNIT (PROCESS: 2, SYSTEM: 5)
- 4) BLOWDOWN GAS COMPRESSION SYSTEM (PROCESS: 2, SYSTEM: 6)
- 5) COKER GAS TREATING/H<sub>2</sub>S ABSORPTION UNIT (PROCESS: 2, SYSTEM: 11)
- 6) FLUID CATALYTIC CRACKING UNITS (PROCESS: 3, SYSTEM: 1, 2 & 3)
- 7) PROPYLENE TETRAMER UNIT (PROCESS: 3, SYSTEM: 6)
- 8) SUPERFRACTIONATION UNIT (PROCESS: 4, SYSTEM 1)
- 9) NAPHTHA SPLITTER UNIT (PROCESS: 4, SYSTEM: 2)
- 10) LIGHT ENDS DEPROPANIZER UNIT (PROCESS: 4, SYSTEM: 3)
- 11) STRAIGHT RUN LIGHT ENDS DEPROPANIZER UNIT (PROCESS: 4, SYSTEM: 4)
- 12) NORTH AREA DEISOBUTANIZER UNIT (PROCESS: 4, SYSTEM: 5)
- 13) COKER GASOLINE FRACTIONATION UNIT (PROCESS: 4, SYSTEM: 7)
- 14) LIQUID RECOVERY UNIT (PROCESS: 4, SYSTEM: 8)
- 15) LIGHT GASOLINE HYDROGENATION UNIT (PROCESS: 5, SYSTEM: 4)
- 16) CATALYTIC REFORMER UNITS (PROCESS: 6, SYSTEM: 1, 2, & 3)
- 17) ALKYLATION UNIT (PROCESS: 9, SYSTEM: 1)
- 18) LINDE ISO-SIV UNIT (PROCESS: 9, SYSTEM: 4)



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The operator shall comply with the terms and conditions set forth below:

- 19) ISO-OCTENE UNIT (PROCESS: 9, SYSTEM: 9)
- 20) MDEA REGENERATION UNITS (PROCESS: 12, SYSTEM: 9, 10, 11, 12, & 13)
- 21) NORTH & SOUTH SOUR WATER TREATMENT SYSTEMS (PROCESS: 12, SYSTEM: 14 & 15)
- 22) SULFUR RECOVERY UNITS (PROCESS: 13, SYSTEM: 1, 2, 3, & 4)
- 23) CLAUS TAIL GAS TREATING UNITS (PROCESS: 13, SYSTEM: 5 & 7)
- 24) MIXED LIGHT ENDS TANK CAR LOADING/UNLOADING (PROCESS: 14, SYSTEM: 2)
- 25) REFINERY VAPOR RECOVERY SYSTEM (PROCESS: 21, SYSTEM: 4)
- 26) SOUTH AREA FLARE GAS RECOVERY SYSTEM (PROCESS: 21, SYSTEM: 10)
- 27) NORTH AREA FLARE GAS RECOVERY SYSTEM (PROCESS: 21, SYSTEM: 11)

THE FLARE GAS RECOVERY SYSTEM SHALL BE OPERATED IN FULL USE WHEN ANY OF THE ABOVE PROCESS(ES) AND SYSTEM(S) IS IN OPERATION. FULL USE MEANS ONE OF TWO COMPRESSOR TRAINS (PROCESS 21, SYSTEM 10 AND PROCESS 21, SYSTEM 11) IS ONLINE AT ANY GIVEN TIME, EXCEPT DURING PLANNED STARTUPS OR SHUTDOWNS WHEN BOTH COMPRESSORS TRAINS SHALL BE ONLINE.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-OFFSET, 5-10-1996]

D12.15 THE OPERATOR SHALL INSTALL AND MAINTAIN A(N) INFRARED / ULTRAVIOLET DETECTOR OR A THERMOCOUPLE TO ACCURATELY INDICATE THE PRESENCE OF A FLAME AT THE PILOT LIGHT.

The operator shall also install and maintain a device to continuously record the parameter being measured.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR 60 Subpart A, 6-13-2007]

D323.1 THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON A BI-WEEKLY BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE BI-WEEKLY PERIOD. THE ROUTINE BI-WEEKLY INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS.

IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST, AND EITHER:

- 1). TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
- 2). HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.



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The operator shall comply with the terms and conditions set forth below:

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- 1). STACK OR EMISSION POINT IDENTIFICATION;
- 2). DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- 3). DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- 4) ALL VISIBLE EMISSION OBSERVATION RECORDS BY OPERATOR OR A CERTIFIED SMOKE READER.

This condition shall become effective when the initial Title V permit is issued to the facility.  
[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]

E193.3 THE OPERATOR SHALL OPERATE AND MAINTAIN THIS EQUIPMENT ACCORDING TO THE FOLLOWING SPECIFICATIONS:

The operator shall comply with all applicable requirements specified in Subpart A of the 40CFR60

[40 CFR 60 Subpart A, 6-13-2007]

H23.3 This equipment is subject to the applicable requirements of the following rules and regulations:

CONTAMINANT	RULE	RULE/SUBPART
VOC	DISTRICT RULE	1173
VOC	40CFR60, SUBPART	GGG

[RULE 1173, 5-13-1994, RULE 1173, 6-1-2007, 40CFR 60 Subpart GGG, 6-2-2008]

H23.12 THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES OR REGULATIONS:

CONTAMINANT	RULE	RULE/SUBPART
BENZENE	40CFR61, SUBPART	FF

[40 CFR 61 Subpart FF, 12-4-2003]

H23.29 THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES OR REGULATIONS:

CONTAMINANT	RULE	RULE/SUBPART
SOX	DISTRICT RULE	1118

[RULE 1118, 11-4-2005]

I1.1 THE OPERATOR SHALL COMPLY WITH ALL THE REQUIREMENTS OF THE CONDITIONS AND COMPLIANCE SCHEDULE AS SPECIFIED IN THE VARIANCE DATED JULY 15, 2008, CASE NO. 5357-36, IN ACCORDANCE WITH THE FINDINGS AND DECISIONS OF THE HEARING BOARD OR AS SUBSEQUENTLY



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The operator shall comply with the terms and conditions set forth below:

MODIFIED BY THE HEARING BOARD. THE OPERATOR SHALL SUBMIT PROGRESS REPORTS AT LEAST SEMI-ANNUALLY, OR MORE FREQUENTLY IF SPECIFIED IN THE FINDINGS AND DECISIONS. THE PROGRESS REPORTS SHALL CONTAIN DATES FOR ACHIEVING ACTIVITIES, MILESTONES OR COMPLIANCE REQUIRED IN THE SCHEDULE OF COMPLIANCE AND DATES WHEN SUCH ACTIVITIES, MILESTONES OR COMPLIANCE WERE ACHIEVED; AND AN EXPLANATION OF WHY ANY DATES IN THE SCHEDULE OF COMPLIANCE WERE NOT, OR WILL NOT BE MET, AND ANY PREVENTATIVE OR CORRECTIVE MEASURES ADOPTED.

The variance (or Order for Abatement) referenced in this condition does not affect federal or citizen enforceability of the underlying SIP approved rules for which the applicant is receiving the variance (or Order for Abatement).

[RULE 3004(a)(10)(C), 12-12-1997]

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